



Skin beauty

Well-aging benefits of collagen

10g/day

Aging of the skin occurs when the epidermis thins, cell renewal slows and collagen is lost or damaged, leading to less moisture, less elasticity and firmness. Contributing factors to skin aging include genes, hormones, UV irradiation, smoking and pollution. All of these factors generate reactive oxygen species that damage the anti-oxidative defense mechanisms of the skin.

Naticol® collagen peptides offer anti-aging solutions in products affordable enough for daily use.



WELL-BEING



Naticol® has clinically demonstrated its role as an ingredient in anti-aging applications.



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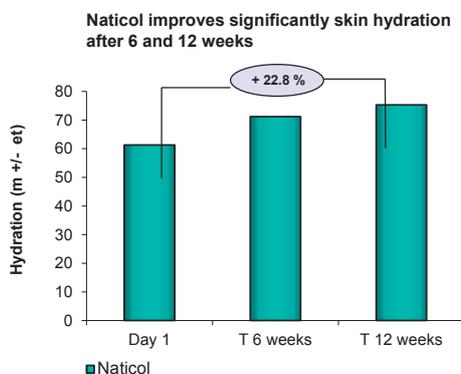


CLINICAL STUDY CP 3407 – METHODS AND RESULTS

This clinical study was double-blind, randomized, against placebo, done on two groups and was carried on 40 healthy female subjects from 50 to 70 y.o, during spring and for 12 weeks. The objective was to evaluate the anti-aging potential of oral intake of 10g of Naticol® fish collagen peptides on cutaneous measures and its tolerance. 10g of Naticol® powder was mixed with liquid and ingested in the morning. This study was conducted by CPCAD (independent pharmacology center specialized in dermatology from Nice, France) and biomechanical measurements of volunteers were controlled by certified dermatologists. This clinical study was performed according to French regulatory competent authority (ANSM) and approved by the local Ethical Committee (CPP). Consent was obtained from each subject before entry in the study.

› Hydration - Corneometer CM825

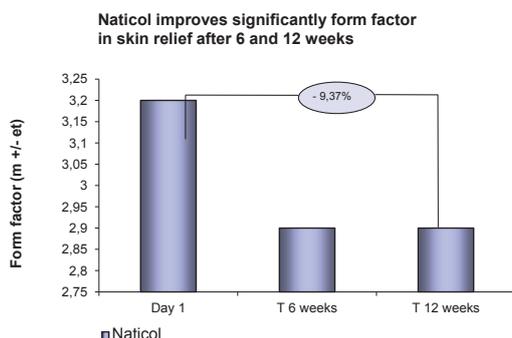
This device measures the electrical capacitance of the skin which is expressed as an index of hydration. It allows to assess the hydration state of the first layers using electrical capacitance measurements.



› Skin relief – Visia® CR

Photographies of the face were taken using a standardized device, the VISIA® CR.

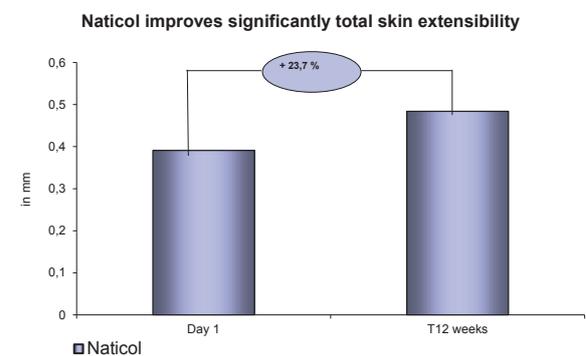
This device allows to take pictures using standardized lighting: white light, cross polarized light, parallel polarized light and UVA light. The replica was lit with incident light at 35° which produced shadowing behind each wrinkle.



Elasticity - Cutometer SEM 575

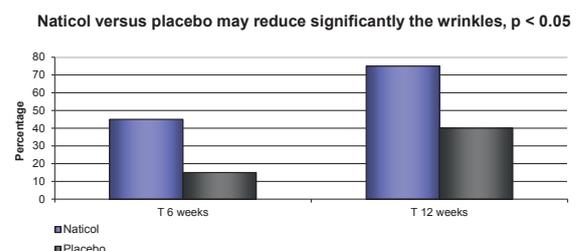
Cutometer® SEM 575 by COURAGE & KHAZAKA was used to measure a deformation perpendicular to the skin during 2 seconds, followed by a relaxation period of 2 seconds. This method measures the degree of deformation and the time required for the skin to return to its original state. The deformation induced on the skin is measured by an optical system.

The measured parameters are: Ue, the elastic deformation; Ur, the elastic back deformation; Uf the total extensibility of the skin; Ua, the total deformation recovery; Ur/Ue the pure elasticity.



› Acceptability questionnaire

The perception of the volunteers about how Naticol® performs was a main component of the clinical study. All the women completed self-assessment questionnaires at the onset of the trial and at the end of the study.



› Tolerance

It was evaluated through a clinical examination and volunteer's questionnaire. Naticol® presents globally an excellent tolerance.

› Conclusion

The results of oral ingestion of 10g Naticol® on a daily basis, up to 12 weeks, clinically show that regular intake of Naticol® Fish collagen peptides should improve the basic skin moisture and elasticity, and reduces wrinkles.